

ABSTRACT OF THE DISCLOSURE

A method and system for detecting and extinguishing fires, and for sharing fire retardant throughout a network of interconnected reservoirs, is self-sealing and autonomous. The system isolates reservoirs when interconnection piping is damaged, and shares retardant to the fire location(s) as needed by routing retardant through undamaged piping segments. Reservoir sensors, fire sensors, damage sensors, valves, redundant and spatially separated flow paths, controllers, and manual over-rides all provide the method and system for detecting and extinguishing major fires automatically, and reacting to system damages. The system is best suited for large buildings or structures such as office buildings, large-scale warehouses, sky-scrapers, cruise ships, aircraft carriers, and the like.